

## Appendix 1 Search strategies

### Search Methods for Identification of Studies

The standard search of the Cochrane Neonatal Review Group, including electronic searches of the Cochrane central register of controlled trials (CENTRAL, The Cochrane Library), MEDLINE (1966 – to present), EMBASE (1980- to present) and CINAHL (1982 –to present) was used. There was no language restriction applied.

The following search terms were applied for each database:

MEDLINE (via PubMed) was searched using the following search strategy:

#1	(infant) OR infants	(infant) OR infants
#2	(neonate) OR neonates	(neonate) OR neonates
#3	(preterm) OR preterms	(preterm) OR preterms
#4	(preterm) AND (neonate OR neonates OR infants)	(preterm) AND (neonate OR neonates OR infants)
#5	(gastroesophageal reflux) AND infants	(gastroesophageal reflux) AND infants
#6	(gastroesophageal) AND reflux	(gastroesophageal) AND reflux
#7	((((gastroesophageal) AND reflux)) AND ((preterm) AND (neonate OR neonates OR infants)))	(#6) AND (#4)
#8	(((((gastroesophageal) AND reflux)) AND ((preterm) AND (neonate OR neonates OR infants)))) NOT animals	(#7) NOT animals
#9	(((((gastroesophageal) AND reflux)) AND ((preterm) AND (neonate OR neonates OR infants)))) AND (therapy OR therapeutic OR therapeutics)	(#7) AND (therapy OR therapeutic OR therapeutics)
#10	((((((gastroesophageal) AND reflux)) AND ((preterm) AND (neonate OR neonates OR infants)))) AND (therapy OR therapeutic OR therapeutics))) NOT animals	(#9) NOT animals
#11	(((((gastroesophageal) AND reflux)) AND ((preterm) AND (neonate OR neonates OR infants)))) AND alginates	(#7) AND alginates
#12	(((((gastroesophageal) AND reflux)) AND ((preterm) AND (neonate OR neonates OR infants)))) AND rabeprazole	(#7) AND rabeprazole
#13	(((((gastroesophageal) AND reflux)) AND ((preterm) AND (neonate OR neonates OR infants)))) AND pantoprazole	(#7) AND pantoprazole

#14	(((((gastroesophageal) AND reflux)) AND ((preterm) AND (neonate OR neonates OR infants)))) AND omeprazole	(#7) AND omeprazole
#15	(((((gastroesophageal) AND reflux)) AND ((preterm) AND (neonate OR neonates OR infants)))) AND proton pump inhibitors	(#7) AND proton pump inhibitors
#16	(((((gastroesophageal) AND reflux)) AND ((preterm) AND (neonate OR neonates OR infants)))) AND esomeprazole	(#7) AND esomeprazole
#17	(((((gastroesophageal) AND reflux)) AND ((preterm) AND (neonate OR neonates OR infants)))) AND ranitidine	(#7) AND ranitidine
#18	(((((gastroesophageal) AND reflux)) AND ((preterm) AND (neonate OR neonates OR infants)))) AND histamine h2 receptors) AND antagonist	(#7) AND (histamine h2 receptors) AND antagonist
#19	(((((gastroesophageal) AND reflux)) AND ((preterm) AND (neonate OR neonates OR infants)))) AND histamine h2 receptors) AND antagonist Schema: all	(#7) AND (histamine h2 receptors) AND antagonist ) Schema: all
#20	(Controlled clinical trial[tw] OR Clinical Trial[tw] OR Clinical trial [ptyp] OR Controlled)	(Controlled clinical trial OR Clinical Trial OR Clinical trial OR Controlled)
#21	(Randomized Controlled Trial[tw] OR Randomized Controlled Trial[ptyp] OR random* [tw])	(Randomized Controlled Trial OR Randomized Controlled Trial OR random)
#22	(((((gastroesophageal) AND reflux)) AND ((preterm) AND (neonate OR neonates OR infants)))) AND ((Randomized Controlled Trial[tw] OR Randomized Controlled Trial[ptyp] OR random* [tw]))	(#7) AND (#21)

EMBASE was searched using the following search strategy:

1.	prematurity/ or preterm.mp.
2.	newborn/
3.	infant/
4.	gastroesophageal reflux.mp. or gastroesophageal reflux/

5.	reflux.mp.
6.	antacid.mp. or antacid agent/
7.	clinical trial/
8.	proton pump inhibitors.mp. or proton pump inhibitor/
9.	histamine H2 receptor antagonist/
10.	alginate.mp. or alginic acid/
11.	1 and 4
12.	6 and 11
13.	1 and 6
14.	7 and 11
15.	8 and 11
16.	9 and 11
17.	10 and 11
18.	12 or 14 or 15 or 16 or 17
19.	7 and 18
20.	random.mp.
21.	19 and 20

COCHRANE Library (CENTRAL and Cochrane Database of Systematic Reviews) were searched using the following search strategy:

#1	preterm
#2	prematurity
#3	neonate or neonates

#4	newborn
#5	infant or infants
#6	gastroesophageal reflux
#7	reflux
#8	antacid
#9	proton pump inhibitors
#10	H2 antagonist
#11	alginate
#12	clinical trials
#13	randomised
#14	#1 or #2 or #3 or #4 or #5 and #6
#15	#14 and #8
#16	#15 and #12
#17	#16 and #13

Cinahl: (infant, newborn OR newborn OR neonate OR neonatal OR premature OR low birth weight OR VLBW OR LBW or Newborn or infan\* or neonat\*) AND (randomized controlled trial OR controlled clinical trial OR randomized OR placebo OR clinical trials as topic OR randomly OR trial OR PT clinical trial) AND (gastroesophageal reflux OR reflux) AND antacid)